

Decision Rules for Listing Chemicals

Chemical Groups	1985 Task Force Report	Existing NR 445	February 2000 WDNR Proposal	September 2000 WDNR Proposal
Non-Carcinogens Tables 1,2 &4*	Used ACGIH Lists	Used ACGIH Lists From 1987-1988 TLV Book	Used <u>all</u> New ACGIH TLVs Revised TLVs have revised Ambient Air Concentrations (AACs). Used 1999 TLV Book	Used 2000 ACGIH TLV List with following exceptions
	Exceptions:	Exceptions:	Exceptions:	Exceptions:
	Simple asphyxiants	Simple asphyxiants	Same as current NR 445 ¹	Same as current NR 445 ¹
	Substances in particulate form with (TLVs >=10mg/M3)	Substances in particulate form with (TLVs >=10mg/M3)	Same as current NR 445 ²	Same as current NR 445 ²
	Vapors with TLVs >99 ppm	Vapors with TLVs >99 ppm	No exception for vapors	Same as current NR 445 ³ for listing, but will have reporting and DNR tracking of these chemicals
Carcinogens Tables 3A & 3B	If Listed by Both NTP and IARC	If Listed by Both NTP and IARC	If Listed by Both NTP and IARC	If listed by Both NTP and IARC Exceptions: If IARC or NTP delist it for scientific reasons or if the chemical is shown by IARC and NTP not to be carcinogenic via inhalation
Reference Concentrations Table 5	Task Force did not consider RfCs – the methodology was not yet in use	RfCs listed if uncertainty is 300 or less, effect. 1995	Same as current NR 445	Same as current NR 445
Clean Air Act Chemicals	Task Force work was completed in 1985, before Clean Air Act Amendments of 1990	Rule has never been evaluated before for inclusion of Clean Air Act chemicals (112(b) list)	If there is an ACGIH TLV, then list in Table 1* or 2 if not listed already. If there is an RfC then list in Table 5. Do not list chemicals without TLVs.	Same as February 2000 proposal
Great Lakes Chemicals	Task Force work was completed before many of the Great Lakes initiatives and lists were developed	Rule has never been evaluated before for inclusion of chemicals of concern to the Great Lakes	If there is an ACGIH TLV, then list in Table 1* or 2 if not listed already. If there is an RfC then list in Table 5. Do not list chemicals without TLVs.	Same as February 2000 proposal

*Chemicals currently listed in Table 4 of NR 445 are proposed to be combined into Table 1. In addition, any new non-carcinogen will be placed in Table 1, unless it is only used as pesticide and would be placed in Table 2.

¹ **Rationale for exclusion:** asphyxiants are only toxic in very high concentrations and act by displacing oxygen from the air. It is highly unlikely that an outdoor exposure would occur at concentrations needed to cause asphyxiation. This applies only to chemicals with only asphyxiation listed as a critical effect in the ACGIH documentation.

² **Rational for exclusion:** current particulate standards for total suspended particulates (TSP) and particulate matter 10 microns or less in size (PM10) regulations already limit the concentration of particulates to a more stringent level than the level that a TLV of 10 mg/M3 would allow. Since there is a regulation that controls the potential for overexposure to these chemicals, the additional listing in NR 445 would be redundant. The current TSP standard is 150 ug/M3 (24 hour average). The current PM10 standard is 150 ug/M3 (24 hour average). The NR 445 standard for a chemical with a TLV of 10 mg/M3 would be 240 ug/M3 (24 hour average).

³ **Rational for exclusion:** Since these chemicals may be used in high volumes even though they are lower toxicity, DNR will receive reporting on emissions and DNR check to make sure the AAC (calculated in the same manner as for chemicals listed in Table) is not exceeded.